RCP3 **ROBO Cylinder**



Speed (mm/s)

Actuator Specifications

	Leads and Payloads						Stroke and	l Maximum Speed		
	Model number	Lead (mm)	Max. Load Horizontal (kg)	d Capacity Vertical (kg)	Stroke (mm)		Stroke (mm)		Stroke Lead	50~300 (every 50mm)
	RCP3-SA3C-I-28P-6-①-②-③-④	6	1	0.5			6	300		
	RCP3-SA3C-I-28P-4-①-②-③-④	4	2	1	50~300 (every 50mm)	50~300 (every 50mm)		4	200	
	RCP3-SA3C-I-28P-2-①-②-③-④	2	3	1.5			2	100		
								(Unit: mm/		

Code explanation ① Stroke ② Applicable Controller ③ Cable length ④ Options *See page A-71 for details on push motion.

①Stroke				
() Stroke (mm)	Standard price			
UStroke (mm)	With cover	Without cover		
50	—	—		
100	—	—		
150	—	_		
200	—	—		
250	_	—		
300	_	_		

③Cable Length

Туре	Cable symbol	Standard price
Cham da ud	P (1m)	_
(Pobot Cables)	S (3m)	_
(NODOL Cables)	M (5m)	_
	X06 (6m) ~ X10 (10m)	_
Special length	X11 (11m) ~ X15 (15m)	_
	X16 (16m) ~ X20 (20m)	_

* The standard cable is the motor-encoder integrated robot cable. * See page A-59 for cables for maintenance.

(4) Options			
Name	Option code	See page	Standard price
Brake	В	→ A-42	—
Optional cable exit direction (top)	CJT	→ A-42	_
Optional cable exit direction (right)	CJR	→ A-42	—
Optional cable exit direction (left)	CJL	→ A-42	—
Optional cable exit direction (bottom)	CJB	→ A-42	—
No cover	NCO	→ A-52	—
Non-motor end specification	NM	→ A-52	—

Actuator Specifications

ltem	Description
Drive System	Ball screw, ø6mm, rolled C10
Positioning repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum, special alumite treated
Allowable static moment	Ma: 5.0 N·m, Mb: 7.1 N·m, Mc: 7.9 N·m
Allowable dynamic moment (*)	Ma: 1.96 N·m, Mb: 2.84 N·m, Mc: 3.14 N·m
Allowable overhang	100mm or less
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

(*) Based on 5,000km of traveling life

Directions of Allowable Load Moment

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② Applicable Controllers RCP3 series actuators can be operated with the controllers indicated below. Select the type according to your intended application.								
Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Color of Mahae Tura	1	PMEC-C-28PI-①-2-①	Easy-to-use controller, even for beginners	AC AC 3 points	AC100V AC200V	Refer to P541	_	→ P537
Solenoid valve Type		PSEP-C-28PI-①-2-0	Simple controller operable with the same signal as a solenoid valve			Refer to P555	_	→ P547
Solenoid valve multi-axis type PIO specification		MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected		_	Refer to P572	_	→ P563
Solenoid valve multi-axis type Network specification		MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points				
Positioner type High-output specification	<u>i</u>	PCON-CA-28PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points	DC24V	Refer to P618	_	
Pulse-train type High-output specification	-	PCON-CA-28PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)			_	→ P607 → P623
Field network type High-output specification		PCON-CA-28PI-10-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points			_	
Pulse Train Input Type (Differential Line Driver)	Pulse Train Input Type (Differential Line Driver) Image: Comparison of the pulse train Input Type (Open Collector) erial Communication Type Image: Comparison of the pulse train training trading training training training training tradius training	PCON-PL-28PI-①-2-0	Pulse train input type with differential line driver support	(—)		Refer to P628	_	
Pulse Train Input Type (Open Collector)		PCON-PO-28PI-①-2-0	Pulse train input type with open collector support					
Serial Communication Type		PCON-SE-28PI-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		PSEL-CS-1-28PI-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points		Refer to P671	_	→ P665

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* This is for the single-axis PSEL. * () indicates I/O type (NP/PN). * () indicates power supply voltage (1: 100V / 2: 100~240V). * () indicates number of axes (1 to 8). * () indicates field network specification symbol. * indicates N (NPN specification) or P (PNP specification) symbol. Motor (24V)

Motor (200V)

Linear Servo Motor

RCP3-SA3C 20